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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/060,458	01/30/2002	Fumiaki Arai	58122-Z CCD	6616	
7590 04/06/2004			EXAMINER		
Christopher C. Dunham c/o Cooper & Dunham LLP			MICHENER, JE	MICHENER, JENNIFER KOLB	
1185 Ave. of the Americas			ART UNIT	PAPER NUMBER	
New York, NY 10036			1762		

DATE MAILED: 04/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)			
	Application No.	Applicant(s)			
Office Action Summany	10/060,458	ARAI ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication app	Jennifer K Michener	1762			
Period for Reply	ears on the cover sheet with the t	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. In the mailing date of this communication. ID (35 U.S.C.§ 133).			
Status					
1) Responsive to communication(s) filed on 23 Ja	nuary 2004.				
2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 11-21 is/are pending in the application 4a) Of the above claim(s) 13,15 and 21 is/are v 5) Claim(s) is/are allowed. 6) Claim(s) 11,12,14 and 16-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine	vithdrawn from consideration. r election requirement.	· · · · · · · · · · · · · · · · · · ·			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 11, 14, 16, 17, 19, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohta (5,843,560).

Examiner maintains the rejection.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 12 and 18 are rejected under 35 U.S.C. 103(a) as being obvious over Ohta.

Examiner maintains the rejection.

Response to Arguments

5. Applicant's arguments filed 1/23/2004 have been fully considered but they are not persuasive.

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Applicant argues that Ohta fails to teach or suggest that the porous resin layer formation coating liquid contains a water-in-oil emulsion of a resin and does not disclose or make obvious any technical effects obtainable by providing the resin in this manner.

Examiner disagrees.

First Examiner notes that the claims do not require any "technical effects" other than creation of a porous resin layer, which Ohta teaches.

Additionally, as outlined in the previous office action and as summarized by Applicant in his response, Ohta teaches that his porous resin layer can contain one or more additives such as a stick-preventing agent and a surfactant and is applied in a mixture of solvents, one "good" and one "bad", such as for example, tetrahydrofuran (THF) and water. Examiner notes that Ohta teaches that silicone, which is an oil, can be used as the stick-preventing lubricant agent. Likewise, THF is an oil. Additionally, surfactants act as emulsifiers. Therefore, the silicone oil and/or THF in the water solvent with an emulsifier, will provide the water-in-oil resin emulsion required by Applicant.

Applicant argues that there is no evidence in Ohta that the above compositions can be used for another purpose, such as providing an emulsion. Namely, it is argued that the silicone oil is merely a stick-preventing agent.

Examiner disagrees.

It is Examiner's position that the above compositions inherently provide the required oil-in-water emulsion. Because the composition of Ohta contains both oils and water, an oil-in-water emulsion is inherently formed regardless of Ohta's intended use of said oil.

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An emulsion is defined as a liquid dispersed in an immiscible liquid, which Ohta teaches by mixing water and oils, which are immiscible. This alone would create an emulsion. However, Examiner additionally pointed out that Ohta teaches the use of a surfactant in his composition. A surfactant is defined as a "surface active agent, esp. as a detergent". An emulsifier is defined as "one that emulsifies, esp. a surface active agent (as a soap)". It appears that a surfactant, such as a detergent or soap, would act as an emulsifier by definition and also because soaps and detergents are designed to form micelles around immiscible oil particles in water using hydrophobic and hydrophilic attractions. The addition of a surfactant would also ensure emulsification.

Furthermore, the requirement for the use of a "bad solvent" by Ohta also teaches the use of immiscible materials, such as required by emulsions.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer K Michener whose telephone number is (571) 272-1424. The examiner can normally be reached on Monday through Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P. Beck can be reached on 571-272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer Kolb Michener

Patent Examiner

Technology Center 1700

October 19, 2003